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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/653,168	09/01/2000	Atsushi Kanke	381AS/49211	5472	
23911 75	90 10/22/2002				
CROWELL & MORING LLP			EXAMINER		
P.O. BOX 1430	AL PROPERTY GROUP		DICKENS, C	HARLENE	
WASHINGTON, DC 20044-4300			ART UNIT	PAPER NUMBER	
			2855		

DATE MAILED: 10/22/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s	NKE etal.
-Offic Action Summary	Examiner	1 1/4	
	D14	ENS	Group Art Unit
— The MAILING DATE of this communication appear	rs on the cover sheet l	eneath the o	correspondence address –
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET 1 OF THIS COMMUNICATION.	TO EXPIRE 3	MONTH	(S) FROM THE MAILING DATE
 Extensions of time may be available under the provisions of 37 CFR from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a If NO period for reply is specified above, such period shall, by defauter to reply within the set or extended period for reply will, by statements after the material properties. Any reply received by the Office later than three months after the material adjustment. See 37 CFR 1.704(b). 	reply within the statutory m If, expire SIX (6) MONTHS f	nimum of thirty rom the mailing	(30) days will be considered timely. date of this communication.
Status R sponsive to communication(s) filed on This action is FINAL.	1/02 \$ 7/24/	02	·
This action is FINAL CO 16/21/07	1 1 1 1		•
☐ Since this application is in condition for allowance except accordance with the practice under Ex parte Quayle, 193	t for formal matters ne	ecourtion ac	to the merits is closed in
Claim(s)		is/ara	nonding in the englishing
Of the above claim(s)		is/are	pending in the application.
7 Claim(s) 1 - 2 8		is/ore	withdrawn from consideration.
Claim(s) 27-33		is/are	allowed.
□ Claim(s)		is/are	rejected.
□ Claim(s)		isvare (objected to.
Application Papers		require	ement
☐ The proposed drawing correction, filed on	is 🗆 approved	☐ disapprov	ed.
☐ The drawing(s) filed on is/are object	ted to by the Examiner	••	
☐ The specification is objected to by the Examiner.		•	•
☐ The oath or declaration is objected to by the Examiner.			
ri rity under 35 U.S.C. § 119 (a)–(d)			
☐ Acknowledgement is made of a claim for foreign priority u	ınder 35 U.S.C. & 119 (a	Ηď	
☐ All ☐ Some* ☐ None of the:	,	, (-)-	
☐ Certified copies of the priority documents have been re	eceived.		
☐ Certified copies of the priority documents have been re	eceived in Application N	Ó	<u> </u>
□ Copies of the certified copies of the priority documents	s have been received		
in this national stage application from the International	Bureau (PCT Rule 17.2	(a))	
*Certified copies not received:			
ttachment(s)			
☐ Information Disclosure Statement(s), PTO-1449, Paper No	(s) ⊓ Ir	terview Sumr	nary, PTO-413
☐ Notice of Reference(s) Cited, PTO-892			
	otice of Informal Patent Application, PTO-152 ther		
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948		ther	

U.S. Patent and Trademark Office PTO-326 (Rev. 11/00)

 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claims 1 and 3, it is not clear what the maximum specified measuring range, thus rendering the last clause of the claims ambiguous. Claims 3 and 18, it is unclear what is the difference between the first value, second value and a value. In claims 12 and 22, it is unclear what is a burn out. In claims 13 and 23, it is not clear what is the predetermined value and how it is calculated.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-33 are rejected under 35 U.S.C. 102(b) as being anticipated by Suzuki et al. Suzuki et al., as best understood, teaches a hot-wire type air flow meter comprising: an exothermic resistor film 1A provided on a thin portion formed on a silicon

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substrate 4 and arranged in a measuring fluid (Fig. 2); and a control circuit (Fig. 3), wherein said resistor film is arranged in a suction pipe (col. 5, lines 22, 23) of the internal combustion engine (col. 1, lines 5-14) and emits heat to an air through said resistor film, and in the case where a liquid droplet is deposited onto said resistor film (col. 5, lines 25-45), said control circuit controls said applied voltage to a value smaller than a voltage which is applied to said resistor film at the time of measuring a maximum specified measuring range or controls said supply current to a value smaller than a current flowing in said resistor film at the time of measuring the maximum specified measuring range (col. 5, lines 35-40); another exothermic resistor 1B provided on said silicon substrate in a portion other than said thin portion; first limiting means 7A for limiting said applied voltage or said supply current to a value which is equal to or less than a first value; and second limiting means 7B for limiting said applied voltage or said supply current to a value which is equal to or less than a second value smaller than said first value; changing means (6A, 6B) for changing a predetermined value or said second value on the basis of a temperature of the liquid droplet or a measuring fluid; wherein said changing means changes the value so as to reduce said predetermined value or said second value when said resistance value increases or changes the value so as to increase said

predetermined value or said second value when said resistance value decreases; wherein a heat generation of said another exothermic resistor is controlled independent of said exothermic resistor.

- 4. Applicants' arguments filed 5/21/02 and 7/24/02 have been fully considered but they are not persuasive. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies the applied voltage or current to the resistor film is limited to a value smaller than a voltage or current which is applied to the resistor film at the time of measuring a maximum specified measuring are not clearly defined in the rejected claim(s) and thus as best understood the reference teach the limitations.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Dickens whose telephone number is (703) 305-7047. Any inquiry of a general nature or relating to the status of this application

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should be directed to the receptionist or the customer service representative whose telephone numbers are (703) 308-0956 or (703) 308-4800 respectively. The fax numbers are (703) 305-3431 and (703) 305-3432.

d/dickens

October 21, 2002

Benjamin R. Fuller Supervisory Patent Examiner Technology Center 2800